



580
November
2013

HF Happenings

South African Radio League * Suid-Afrikaanse Radioliga
Member Society of the International Amateur Radio Union since 1925
www.sarl.org.za www.iau.org www.iau-r1.org



60 Metre Activity Weekend

The SARL is holding a 60 Metre activity weekend starting at 00:01 on Saturday 9 November and ending at midnight on Sunday evening 10 November. The activities will be on 5 260 kHz. The objective is to study propagation conditions between as many stations in as many areas of South Africa and elsewhere as possible.

Make at least one contact in as many time slots as possible. The time slots are as follows: Saturday and Sunday: 00:01 - 06:00, 06:00 - 10:00, 10:00 - 15:00; 15:00 - 18:00 and 18:00 - Midnight. Please keep an accurate log, recording both your and the locator of the station you worked and an accurate signal report.

Please at the top of your log give details of your station and the antenna and power used. Please mail the log to propresearch@sarl.org.za before Thursday 14 November. All logs received will go into a lucky draw with lots of prizes to be won. Only stations registered for 5 MHz operation may participate. Do your bit for propagation research. The information is required to prepare a report for ICASA to extend the 5 MHz license beyond the end of December.

Have *YOU* done anything today to Promote Amateur Radio?

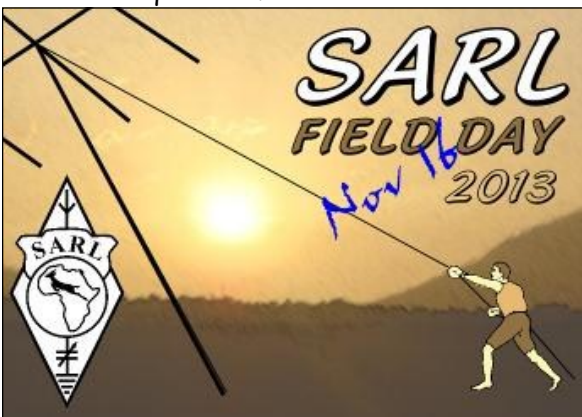
November

2 - RaDAR Contest
9 and 10 - 60 Metre Activity Weekend
10 - Remembrance Sunday; PEARS HF Contest
11 - Armistice Day
14 - logs for 60 metre Activity Weekend
16 and 17 - SARL National Field Day
23 and 24 - CQ WW DX CW Contest
25 - logs for the National field Day

SARL National Field Day

The aim of the SARL National Field Day is to work as many stations as possible on all the HF amateur bands (excluding the 30, 17 and 12 m WARC bands) and in doing so to learn to operate in abnormal situations in less than optimal conditions. A premium is placed on developing skills to meet the challenges of emergency preparedness as well as to acquaint the general public with the capabilities of Amateur Radio.

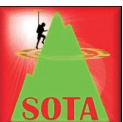
The contest will take place on 16 and 17 November, between 10:00 UTC on Saturday to 10:00 UTC on Sunday (12:00 to 12:00 CAT). Phone, CW and Digital activity on all the HF amateur bands, excluding the WARC bands (30, 17 and 12 metre bands). Phone, CW and Digital modes on a band are considered as separate bands. A station may be worked only once per band under this rule. All voice contacts are equivalent and all digital contacts are equivalent.



There is no limitation to the number of transmitters or receivers that may be employed. The use of more than one transmitter at the same time on a single band-mode is prohibited.

Entry Categories: Class A - Field Station -Multi operator: Such stations must be located in places that are not regular station locations and must comply with the requirements of a field station as defined in the general section of rules. A single licensee or trustee for the entry is responsible for the group entry. All equipment (including antennas) must lie within a circle

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Current Summits-on-the-Air (SOTA) activities are announced at www.sotawatch.org
And more SOTA information can be found at www.sota.org.uk



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whose diameter does not exceed 500 metres. All contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains.

Class B - Field Station -Multi operator - QRP: All contacts must be made using an output power of 5 Watts or less. Other provisions are the same as Class A.

Class C - Field Station -Single Operator: Such stations must be located in places that are not regular station locations and must comply with the requirements of a field station as defined in the general section of rules. All equipment (including antennas) must lie within a circle whose diameter does not exceed 500 metres. All contacts must be made with transmitter(s) and receiver(s) operating independent of commercial power mains.

Class D - Field Station—Single Operator - QRP: All contacts must be made using an output power of 5 Watts or less. Other provisions are the same as Class C.

Class E - Ultra Light Portable: Light weight self-contained stations, operating QRP or low power such as RaDAR, Summits on the Air, Parks on the Air (game and nature reserves), Islands on the Air, Heritage sites, etc. The entire station, antenna included, must be carried by the operator to the operating site. The distance carried must not be less than 1 km.

Class F- General stations: Stations operating from permanent or licensed station locations using commercial power.

Only one call sign per station is permitted. In the case of multi-operator stations using more than one transmitter, all operators shall use the same call sign.

Equipment for Field Stations may only be set up in the 24 hours prior to the starting time of the contest. This restriction applies to antennas, masts, towers and transmitting equipment, but excludes accommodation such as a caravan, tent, etc.

Once a Field Station has been established at a site, it may not move to an alternative site after the contest starts, excluding Class E stations.

The exchange is the number of transmitters, Field Day operating Class and Provincial Abbreviation. Examples: A three-transmitter Class A field station in Gauteng would send "3A GP" on CW or "3 Alpha - Golf Papa" on Phone. A general station using a single transceiver located in Cape Town would give the following exchange "1F WC" on CW or "1 Foxtrot - Whiskey Charlie" on phone. DX stations send operating class and the term DX (i.e. "1E DX"). Refer to General Rule 16 for two letter abbreviations for South African provinces.

Scores are based on the total number of QSO points X the power multiplier X the number of provinces worked X the class multiplier. QSO Points: Each contact with a station from one of the South African provinces counts for five points. Each DX contact counts for one point.

Power multipliers: X 6: Power 5 watts or less. X 4: Power 50 watts or less. X 2: Power 100 watts or less. X 1: Power greater than 100 watts. The power multiplier for an entry is determined by the maximum output power used by any transmitter used to complete any contact during the event.

Provinces worked multiplier. A multiplier of one for each one of the 9 South African provinces worked (regardless of band) and one extra for working any station outside of the 9 provinces i.e. DX. Refer to General Rule 16

Class multiplier. General stations, class multiplier of 1. Field stations single and multi, class multiplier of 3

A person may not contact for QSO credit any station from which they also participate.

A transmitter/receiver/transceiver used to contact one or more Field Day stations may not subsequently be used under any other call sign to participate in Field Day.

Batteries may be charged while in use. The batteries must be charged

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I am aware of the Magaliesberg Radioklub, the Overberg Amateur Radio Club and the Bloemfontein Amateur Radio Club WHO are going out for the Field day weekend! What about the other Clubs?



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from a power source other than commercial power mains.

All stations for a single entry must be operated under one call sign.

Log/summary sheets must be sent by e-mail to zs4bfn@netactive.co.za or by post to the SARL National Field Day, Box 12104, Brandhof, 9324. The closing date for log submissions is 25 November 2013. Note: A photo(s) of the station (JPG format) MUST accompany every log entry.

This and That

CQ WW DX SSB Contest. Less than 9 days after the CQ World Wide SSB contest, the raw scores <http://www.cqww.com/claimed.htm?mode=ph> for more than 8000 entries are now available. These scores are based on a first pass through the log to make sure all are based on consistent scoring and multiplier lists. No checking of the contacts themselves has been performed. Please confirm that if you submitted a log, it is listed and that your category is correct. If not, email the CQ WW Committee questions@cqww.com right away. (Thanks, CQ WW Director, Randy K5ZD)

The fuller-than-full phone bands during the CQ World Wide SSB Contest certainly pointed out the need amateurs have in general for cleaner transmit signals. Part of the problem is the use of low-voltage 12 V power supplies for most transceivers which exacerbate intermodulation distortion and all the resulting output "stuff" which is then faithfully amplified by external linears, assuming that those are, in fact, linear and don't generate even *more* "stuff." But how is IMD really measured? Leigh VK5KLT suggests, "A good informative site for practical two-tone based IMD measurement on ham amplifiers is that of Larry, WØQE, http://www.w0qe.com/Technical_Topics/imd_testing_of_amplifiers.html. Other than that technique, modern SDR-based transceivers with a panadapter spectrum bandscope allows one to directly observe the occupied spectrum of an on-air signal and confirm how narrow or otherwise the transmit frequency occupancy is and deduce the signal's IMD characteristics." Jeff, ACØC, points out that a Softrock receiver and free *PowerSDR* software will do the job nicely for under \$20. Jim, N7CXI, also generated a 30-second two-tone test WAV file http://www.n7cxi.com/public/two_tone_44.1_mono_24bit.wav and posted it online to use during testing. Numerous sound-card spectrum analysis software is available to help with testing if you want to go that route. So there's really no serious barrier to performing these tests. It's good to see the CQ World Wide Contest Committee starting to pay attention to some of the signals on the bands that are far wider than they need to be and are considered unsportsmanlike conduct <http://cqww.com/blog/?p=178>.

12 volts or 13,8 volts? It may not be common knowledge that running your "12-volt" radio at 12 volts is really too low for it! If you look at the specification for nearly all commercial radios, they really are designed to be operated at the typical voltage of an automotive power system while the engine is running - 13,8 volts. The lower voltage often results in poor transmitted signals with chirp, clicks, and distortion. Note, too, that a loose power supply connection can also cause problems as voltage at the radio input drops under load. Steve, N2IC, notes that it only take 0.06 ohms of "extra" resistance to cause 1 volt of drop at 17 amps. Make sure your power supply connections are tight *before* the contest and be a good neighbour.

African DX

Tanzania, 5H. Op Cancelled - Operator Fred, IK7JWX, informs that his major IOTA DXpedition to the Island of Zanzibar scheduled for April 2014 is now cancelled "due to technical and logistical constraints".

Kenya, 5Z. Dani, EA4ATI, who was currently active as 5Z4T during the CQ WW DX SSB Contest, informs that he will be in Kenya for a couple more years and will be active as 5Z4/EA4ATI. He is using a Cobweb antenna with a small amplifier and is active on 30, 20, 17, 15 and 10 metres. He hopes to improve on his station and use the low bands in the future. His QSL Manager is EA4YK.





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African Tour. Carl, SM6CPY, will once again be active as 5H3CJ from Tanzania between 6 to 12 and 18 to 26 November. Activity will be holiday style on most bands, but mostly CW on 20 - 10 meters listening up 25 kHz and operating with 100 watts, and possibly the lower bands depending on the antenna possibilities. Carl is also going to visit Rwanda during this period, and is expected to be active as 9XOPY between 12 and 18 November (tentative). His activity will be the same as his 9X operation. QSL both call signs via his home call sign, direct or by the Bureau.

African Tour. Mathias, DJ2HD, will once again be active as V5/DJ2HD from Namibia between 14 December and 18 January 2014. This is just one part of his 4x4 trip through different countries. Activity will be holiday style on SSB and RTTY, but will also include a SSB entry in the DARC 10 m Contest (14 January). During this time frame, Mathias will also travel to and be active once again as 7P8DJ from Lesotho between 22 and 24 December. There are also plans to be active from South Africa (as ZS/DJ2HD) and one more country to be announced later, but no scheduled days have been provided. QSL all call signs via his home call sign, direct or by the Bureau.

Cote d'Ivoire, TU. The website for the 17 to 30 November "solidarity radio operation" from Cote d'Ivoire is now up and running at www.premiumorange.com/tu2013/. Chris TU5AX, Paul TU5XV and Jan TU5NK plan to be active on 160 to 6 metres as follows:

CW - 1 826.5, 3 524, 7 024, 10 104, 14 024, 18 084, 21 024, 24 894, 28 024 and 50 104

SSB - 3 799, 7 070, 14 190, 18 150, 21 290, 24 950, 28 490 and 50 150

Digi - 7 050, 10 138, 14 080, 18 100, 21 080, 24 920 and 28 080

Announced frequencies for 60 m SSB are 5371.5 and 5403.5. QSL TU5AX via F4WBN (direct/bureau, OQRS on Club Log), QSL TU5NK via DJ8NK (direct/bureau and LoTW, OQRS on Club Log), QSL TU5XV via F6EXV (direct/bureau and LoTW, OQRS on Club Log).

Namibia, V5. Klaus, DJ4SO be active again as V5/DJ4SO from Namibia from 7 or 8 November to 4 December. He plans to operate CW, digital modes and some SSB on 160-6 metres. QSL via home call.

African Islands

Gough Island, ZD9. Banei van der Merwe, ZS1BM is part of the 59th overwintering team on Gough Island (AF-030) that departed Cape Town on 5 September aboard the MV S.A. Agulhas II. According to qrz.com, he expects to be active as ZD9G until August 2014. QSL via ZS1HF.



Canary Islands, EA8. Operators Andrea, IK1PMR and YL Claudia, PA3LEO will once again be active as EA8/homecall from Tenerife Island (AF-004) between 26 November and 7 January 2014. Activity will be on 160 - 6 meters using CW, SSB and RTTY. QSL via their home call signs, by the Bureau, direct or E-mail requests for Bureau cards. For more details and updates, see <http://www.ik1pmr.com>

Canary Islands, EF8. Luis, EA8AY, will use the special call sign EF8USA from Tenerife Island (IOTA AF-004, DIE S-012, WLOTA 1276, EAA TF) during the ARRL DX CW Contest (15 and 16 February) as a Single-Op/All-band entry. QSL via W2GR. Visit his Web site at <http://www.ea8ay.com/ef8x2>

Contest Calendar

This week's contests compiled by Bruce Horn, WA7BNM. The period covered is 4 to 11 November 2013

NRAU 10 m Activity Contest

18:00 - 19:00 UTC (CW); 19:00 - 20:00 UTC (SSB);
20:00 - 21:00 UTC (FM) and 21:00 - 22:00 UTC 7 November (Dig)

Mode: CW, SSB, FM, Digital

Bands: 10 m Only

Classes: (none)

Exchange: RS(T) and 6-character grid square

QSO Points: (see rules)

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 21 November 2013

Upload log at: http://ua9qcq.com/contests/submit_log_eng.php

Mail logs to: (none)

Find rules at: <http://www.nrau.net/activity-contests/below-30mhz.html>

NCCC RTTY Sprint

01:30 - 02:00 UTC 8 November

Mode: RTTY

Bands: (see rules)

Classes: (none)

Exchange: (see rules)

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 10 November 2013

E-mail logs to: (none)

Post log summary at: <http://www.3830scores.com/>

Mail logs to: (none)

Find rules at: <http://www.ncccsprint.com/rules.html>

QRP Fox Hunt

02:00 - 03:30 UTC 8 November

Mode: CW

Bands: 80 m Only

Classes: Single Op (Fox/Hound)

Max power: 5 watts

Exchange: RST, state, province or country, name and power output

QSO Points: 1 point per QSO

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 03:30 UTC 9 November 2013

E-mail logs to: (see rules)

Mail logs to: (none)

Find rules at: http://www.qrpfoxhunt.org/winter_rules.htm

NCCC Sprint

02:30 - 03:00 UTC 8 November

Mode: (see rules)

Bands: (see rules)

Classes: (none)

Exchange: (see rules)

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 10 November 2013

E-mail logs to: (none)

Post log summary at: <http://www.3830scores.com/>

Mail logs to: (none)

Find rules at: <http://www.ncccsprint.com/rules.html>

WAE DX RTTY Contest

00:00 UTC 9 November to 23:59 UTC 10 November

Mode: RTTY

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op - high or low; Multi-Op; SWL

Max operating hours: Single Op: 36 hours, off times of at least 60 minutes; Multi-Single: 48 hours

Max power: HP: >100 Watts; LP: 100 Watts

Exchange: RS and serial no

Work stations: Once per band

Score Calculation: (see rules)

Submit logs by: 25 November 2013

E-mail logs to: waertty@dxhf.darc.de

Mail logs to: (none)

Find rules at: <http://www.darc.de/referate/dx/contest/waedc/en/rules/>

10-10 International Fall Digital Contest

00:01 UTC 9 November to 23:59 UTC 10 November

Mode: Digital

Bands: 10 m Only

Classes: Individual; Club; QRP

Max power: non-QRP: >5 watts; QRP: 5 watts

Exchange: 10-10 Member: Name, 10-10 number and state, province or country; Non-Member: Name, 0 and state, province or country

QSO Points: 1 point per QSO with a non-member; 2 points per QSO with a 10-10 member

Multipliers: (none)

Score Calculation: Total score = total QSO points

Submit logs by: 25 November 2013

E-mail logs to: tentencontest@ten-ten.org

Mail logs to: Dan Morris, KZ3T, 3162 Covington Way, Lenoir, NC 28645, USA

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Find rules at: <http://www.ten-ten.org/Forms/QSO%20Party%20Rules.pdf>

JIDX Phone Contest

07:00 UTC 9 November to 13:00 UTC 10 November

Mode: SSB

Bands: 80, 40, 20, 15, 10 m

Classes: Single Op All Band - low or high; Single Op Single Band - low or high; Multi-Single; Maritime Mobile

Max power: HP: >100 W; LP: 100 W

Exchange: JA: RST and Prefecture no; non-JA: RST and CQ Zone no

Work stations: Once per band

QSO Points: 2 points per JA-DX QSO on 80 m; 1 point per JA-DX QSO on 40, 20, 15 m; 2 points per JA-DX QSO on 10 m

Multipliers: JA Stations: DXCC countries and CQ zones once per band; non-JA Stations: JA prefectures plus JD1/O, JD1/MT, JD1/OT once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 10 December 2013

E-mail logs to: ph@jidx.org

Mail logs to: JIDX Phone Contest, c/o Five-Nine Magazine, PO Box 59, Kamata, Tokyo 144-8691, Japan

Find rules at: <http://www.jidx.org/jidxrule-e.html>

SKCC Weekend Sprintathon

12:00 UTC 9 November to 24:00 UTC 10 November

Mode: CW

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: (none)

Max operating hours: 24

Exchange: RST, name, state, province or country and SKCC no or "NONE"

Work stations: Once per band

QSO Points: 1 point per QSO

Bonus Points: (see rules)

Multipliers: Each state, province, or country once

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 17 November 2013

Post log summary at: <http://wes.m0trn.com/submission.php>

Mail logs to: (none)

Find rules at: http://www.skccgroup.com/operating_activities/weekend_sprintathon/

OK/OM DX CW Contest

12:00 UTC 9 November to 12:00 UTC 10 November

Mode: CW

Bands: 160, 80, 40, 20, 15, 10 m

Classes: Single Op All Band - QRP, low or high

Single Op Single Band - low or high

Multi-Single

SWL

Max power: HP: 1 500 watts; LP: 100 watts; QRP: 5 watts

Exchange: OK/OM: RST and 3-letter district code; non-OK/OM: RST and serial no

Work stations: Once per band

QSO Points: OK/OM-Station: 1 point per QSO with EU station; OK/OM-Station: 3 points per QSO with DX station; EU-Station: 1 point per QSO with OK/OM station; DX-Station: 3 points per QSO with OK/OM station

Multipliers: OK/OM-Station: each prefix once per band; non-OK/OM-Station: each OK/OM district once per band

Score Calculation: Total score = total QSO points x total mults

Submit logs by: 24 November 2013

Upload log at: <http://okomdx.crk.cz/index.php?page=send-log>

Mail logs to: OK-OM DX Contest, CRK, PO Box 69, 113 27 Praha 1, Czech Republic

Find rules at: <http://okomdx.crk.cz/index.php?page=english>

Kentucky QSO Party

14:00 UTC 9 November to 02:00 UTC 10 November

Mode: CW, SSB, Digital

Bands: 160, 80, 40, 20, 15, 10, 6 m

Classes: KY Fixed - CW, phone, digital or mixed

KY Fixed Multi-Single

KY Rover - CW, phone or mixed

Out of State

Exchange: KY: RS(T) and county; non-KY: RS(T) and -state, province or country

Work stations: Once per band per mode per county
QSO Points: 1 point per SSB QSO; 2 points per CW QSO; 2 points per Digital QSO

Bonus Points: 500 points for at least one QSO with KY4DXA; 1 000 points for each county activated beyond home county (minimum 10 QSOs/county)

Multipliers: KY Stations: Each KY county, state, province once; non-KY Stations: Each KY county once

Score Calculation: Total score = (total QSO points x total mults) and bonus points

Submit logs by: 31 December 2013

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E-mail logs to: k4cms@aol.com

Mail logs to: Larry R. Smith, K4CMS, 623 Shady Lane,
Alvaton, KY 42122, USA

Find rules at: [http://www.wkdx.com/mainsite/](http://www.wkdx.com/mainsite/index.php?)
[index.php?](http://www.wkdx.com/mainsite/index.php?)

[op-](http://www.wkdx.com/mainsite/index.php?)
[tion=com_content&view=article&id=45:wkdx&catid=1](http://www.wkdx.com/mainsite/index.php?)
[:latest-news&Itemid=63](http://www.wkdx.com/mainsite/index.php?)

CQ-WE Contest

19:00 - 23:00 UTC 9 November (CW/Digital); 01:00 -
05:00 UTC 10 November (Phone); 19:00 - 23:00 UTC
10 November (Phone) and 01:00 - 05:00 UTC 11 No-
vember (CW/Digital)

Mode: CW, Phone, Digital

Bands: 160, 80, 40, 20, 15, 10, 6, 2, 432 MHz

Classes: Single Op

Exchange: Name, Location Code (see rules) and Years
of Service (see rules)

Work stations: Once per band per mode

QSO Points: Points equal to years of service received
in exchange for each QSO

Multipliers: Each location code once per mode

Score Calculation: Total score = sum of (total QSO
points x total mults) for each mode

Submit logs by: 1 December 2013

E-mail logs to: (see rules)

Mail logs to: (see rules)

Find rules at: <http://cqwe.cboh.org/rules.html>

EANET Sprint

08:00 - 12:00 UTC 10 November

Mode: Any

Bands: Any

Classes: Individual - Spain or non-Spain; Club - Spain
or non-Spain - member or friend

Exchange: RS(T)

Work stations: Once

QSO Points: 1 point per QSO with an individual; 3
points per QSO with a friend radio club; 5 points per
QSO with a member radio club

Multipliers: Each ISO 3166-1 country once; Each con-
tinent once

Score Calculation: Total score = total QSO points x
total countries x total continents

Submit logs by: 24 November 2013

E-mail logs to: eanet-sprint@fediea.org

Mail logs to: (none)

Find rules at: [http://www.fediea.org/news/?](http://www.fediea.org/news/?news=20131110)
[news=20131110](http://www.fediea.org/news/?news=20131110)

Next weeks contests

QRP Fox Hunt, 02:00 - 03:30 UTC 13 November

CWops Mini-CWT Test, 13:00 - 14:00 UTC; 19:00 - 20:00 UTC 13 November and 03:00 - 04:00 UTC 14 Novem-
ber

NAQCC-EU Monthly Sprint, 18:00 - 20:00 UTC 13 November

RSGB 80 m Club Sprint, SSB, 20:00 - 21:00 UTC 13 November

QRP Fox Hunt, 02:00 - 03:30 UTC 15 November

NCCC Sprint, 02:30 - 03:00 UTC 15 November

YO International PSK31 Contest, 16:00 - 22:00 UTC 15 November

SARL Field Day Contest, 10:00 UTC 16 November to 10:00 UTC 17 November

LZ DX Contest, 12:00 UTC 16 November to 12:00 UTC 17 November

Feld Hell Sprint, 16:00 UTC-18:00 UTC 16 November

All Austrian 160-Meter Contest, 16:00 UTC 16 November to 07:00 UTC 17 November

ARRL Sweepstakes SSB Contest, 21:00 UTC 16 November to 03:00 UTC 18 November

NA Collegiate ARC SSB Championship, 21:00 UTC 16 November to 03:00 UTC 18 November

RSGB 2nd 1.8 MHz CW Contest, 21:00 UTC 16 November to 01:00 UTC 17 November

EPC PSK63 QSO Party, 00:00 - 24:00 UTC 17 November

Homebrew and Oldtime Equipment Party, 13:00 - 15:00 UTC 17 November (40 m) 15:00 - 17:00 UTC 17 Novem-
ber (80 m)

Run for the Bacon QRP Contest, 02:00 - 04:00 UTC 18 November



Logs Wanted for the Super Check Partial Database

I will be releasing a new version of the Super Check Partial database files on Thursday 14 November 2013. I am requesting your logs for input to the database files.

If there is a new contesting call sign you want added to the database for activity in the next few months, let me know before next Thursday and I'll add it to the database. This will be the last update until early February.

At any time, please attach in an email the same Cabrillo format log that you submitted to the contest sponsor and send it to logs@supercheckpartial.com.

My most recent request for logs was on 09 October, 2013. If you have already sent me your logs, there is no reason to send them again.

Logs from any contest within the last 24 months are always appreciated. Some of the more commonly submitted logs are from:

CQ WW DX - CW, Phone, RTTY

CQ WPX - CW, Phone, RTTY

CQ 160M - CW, Phone

ARRL DX - CW, Phone

ARRL Sweepstakes - CW, Phone

ARRL RTTY Roundup

ARRL 10M

ARRL 160M

IARU Radiosport

Russian DX Contest

Worked All Europe - CW, Phone, RTTY

More info on SCP at <http://www.supercheckpartial.com>

Thanks for your help! Bob WA1Z

History This Week for the week starting 4 November

1631 - Pierre Gassendi observes transit of Mercury predicted by Kepler

1804 - The first US patent for a separable electric attachment plug was issued to Harvey Hubbell of Bridgeport, Connecticut

1862 - Gatling gun patented (Richard J Gatling)

1862 - New York to San Francisco direct telegraphic link established

1885 - Motorcycle, designed by Gottlieb Daimler, made its debut.

1895 - First US patent granted for automobile (George B Selden)

1895 - Wilhelm Röntgen first observed X-rays during an experiment at Würzburg University.

SARL National Field Day 16 and 17 November 2013



Items used with acknowledgement to The ARRL Letter, Amateur Radio Newline, OPDX Bulletin, 425 DX Bulletin, DXNL Bulletin, ARRL DX News, WIA-News, the RSGB News and Southgate ARC News